

(19) World Intellectual Property Organization International Bureau



1 COLOR BOLLOCK DE COLOR B

(43) International Publication Date 17 July 2003 (17.07.2003)

PCT

(10) International Publication Number WO 03/057526 A1

- (51) International Patent Classification7: B60N 2/48 // 2/36
- (21) International Application Number: PCT/SE03/00002
- (22) International Filing Date: 2 January 2003 (02.01.2003)
- (25) Filing Language:

Swedish

(26) Publication Language:

English

(30) Priority Data: 0200044-6

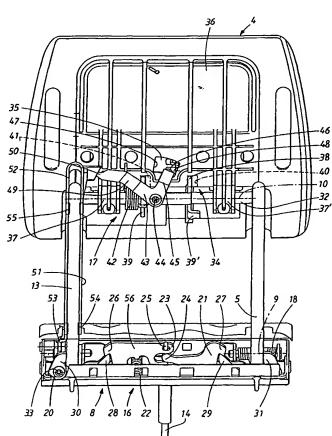
7 January 2002 (07.01.2002) SE

- (71) Applicant (for all designated States except US): KONGS-BERG AUTOMOTIVE AB [SE/SE]; Box 504, S-565 28 Mullsjö (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): KARLBERG, Rune [SE/SE]; Beth Södergård, S-560 25 Bottnaryd (SE).

- (74) Agent: ALBIHNS GÖTEBORG AB; Box 142, S-401 22 Göteborg (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: A HEAD REST FOR MOTOR VEHICLES



(57) Abstract: The present invention relates to a head rest for a vehicle seat in a motor vehicle. The head rest consists of an attachment (8) arranged on top of the back rest of the vehicle seat, a protective cushion (4) and one or several supporting arms (5, 13) which protrude from the attachment and support the protective cushion (4). The supporting arms are at their one end (7) pivotably attached to the attachment about a lower pivoting shaft (9), and the attachment exhibits a locking mechanism which in its use position for the head rest holds the locking arms pivotably locked about the first pivot shaft relative to the attachment. A release mechanism can, when activated, release the locking mechanism for pivoting of the supporting arms together with the protective cushion about the pivot shaft. The protective cushion (4) is also pivotably attached to the supporting arms (5, 13) about an upper pivoting shaft (10) and a second locking mechanism in the use position holds the protective cushion pivotably locked about the upper pivoting shaft relative to the supporting arm. A further release mechanism can, when activated, release the protective cushion from its pivotably locked position for pivoting of the cushion relative to the supporting arms.



WO 03/057526 A1

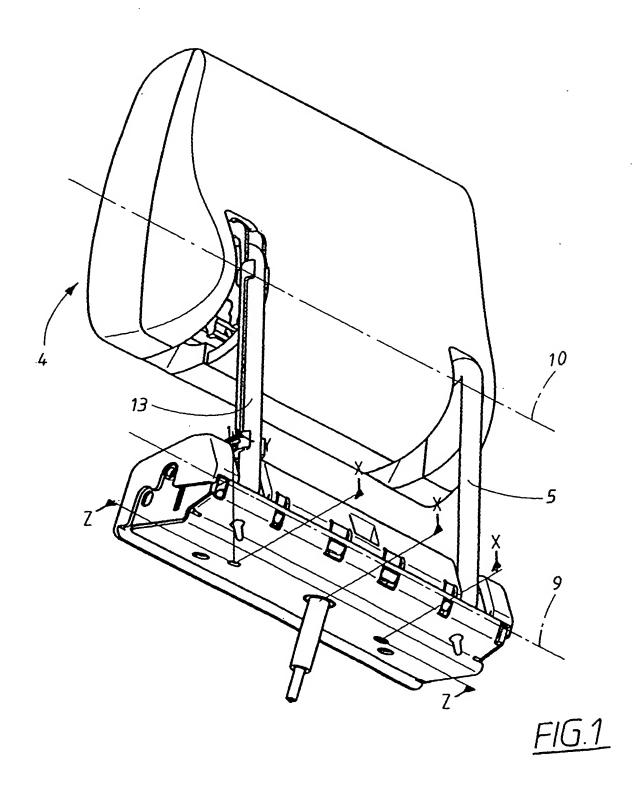


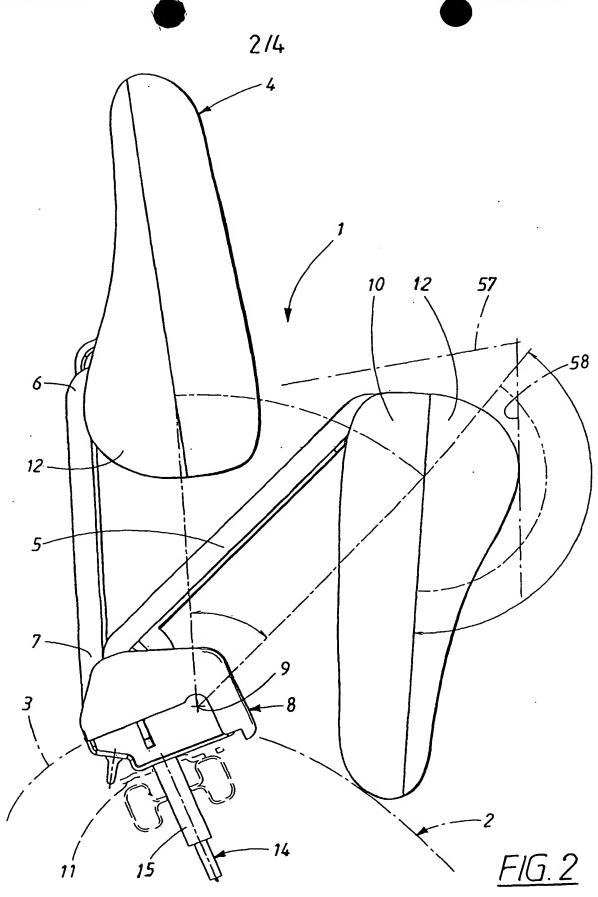
Published:

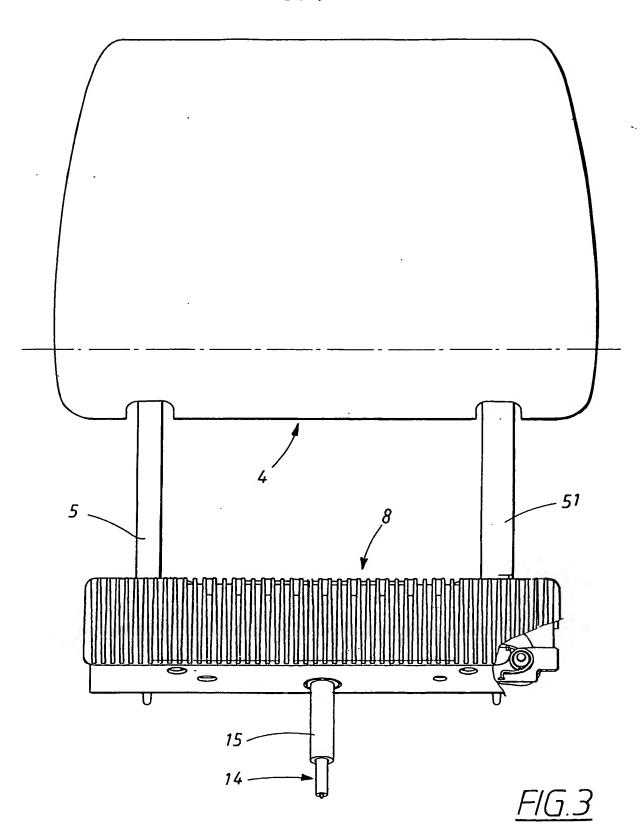
with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

1/4







RECTIFIED SHEET (RULE 91)

A. CLASSIFICATION OF SUBJECT MATTER IPC7: B60N 2/48 // B60N 2/36 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC7: B60N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Α DE 19914442 A1 (VOLKSWAGEN AG), 5 October 2000 1-6 (05.10.00)WO 9401302 A1 (SCANDMEC AB ET AL), 20 January 1994 1-6 A (20.01.94)Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive filing date document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination "O" document referring to an oral disclosure, use, exhibition or other heing ohvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 2 5 -03- 2003 <u>19 March 2003</u> Name and mailing address of the ISA/ Authorized officer **Swedish Patent Office** Box 5055, S-102 42 STOCKHOLM Göran Carlström/EK Facsimile No. +46 8 666 02 86 Telephone No. + 46 8 782 25 00

INTERNATIONAL SEARCH REPORT Information on the state of the second secon

Interpretional application No. PC 30/12/02 PC 03/00002

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
DE	19914442	A1	05/10/00	NONE		
WO	9401302	A1	20/01/94	EP SE SE	0688273 A,B 500968 C 9101166 A	27/12/95 10/10/94 19/10/92